

Sold by

# ACCESSORIES FOR THE

BELL & HOWELL



Camera and Projector



FOR Better Personal Moving Pictures

## Introduction

SINCE the FILMO Camera and Projector were put on the market, there has been an ever increasing demand from owners for additional equipment which will add to the possibilities of personal motion picture photography.

The Bell & Howell Company has met this demand with a selection of accessories unparalleled in its completeness and quality. Regardless of what your hobby may be, or what unusual work you may wish to do with your FILMO, there is equipment available which will permit you to film your subject matter successfully and with professional results.

Like the FILMO Camera and Projector, these accessories are built only of the finest materials and with the most careful workmanship. They are held to the same professional standards as our commercial studio equipment which is used in the production of 95 per cent of the feature pictures seen at the better theatres.

The following pages of the booklet illustrate and describe FILMO Camera and Projector Accessories.

When ordering always quote name of item, code, and price in your order. This will triple check the items you desire and prevent errors.

#### **BELL & HOWELL COMPANY**

1801-15 Larchmont Ave., CHICAGO



NEW YORK HOLLYWOOD
220 W. 42ND ST, 6324 SANTA MONICA BLVD
LONDON (B.&H.CO., LTD.)

320 REGENT ST.

Established 1907

BELL & HOWELL COMPANY CHICAGO

## The "Filmo LIBRARY"

Here is something entirely new in home entertainment for owners of 16 mm. projectors. Movie films featuring a wide and interesting variety of subjects can now be had at a price so low that every 16 mm. projector owner can afford them.

The "FILMO Library" films are produced in Hollywood, California, for exclusive distribution by the Bell & Howell Company. New releases are announced each month in "FILMO Topics," so there is a constantly expanding selection to draw from.

The subjects are especially picked for permanent appeal. Short sketches by famous film stars, especially produced playlets, vaudeville acts of the highest class, feature films, news subjects, travel and adventure pictures, and educational and scientific reels are all available, as well as the famous Ditmar series of Living Natural History films, now distributed exclusively by the Bell & Howell Company. Projector owners use these to interperse with programs of their own films, where they add enlivening variety. The films, which are of subjects difficult or impossible for the individual to obtain, are also in demand for cutting and splicing into personally made reels. This cutting can be done because the films become your own property, rather than being merely rented to you.

Furthermore, films by the best known professionals showing how to play golf are included in the "FILMO Library." The golf films show each stroke at normal speed, then in slow motion, and also in a series of still views so that each stage of the stroke may be carefully studied.

"FILMO Library" films are made by professional camera men. The films are all carefully developed by experts. There is no "waste footage." Every roll contains 100 feet of perfect film, reduced from 250 feet of standard negative, ready to run. Films come in neat cartons, with subject carefully labelled. See "FILMO Topics" and special literature for description and prices of "FILMO Library" film releases.



Glacier Park



Adventure



Natural History



Ditmars Series-Bengal Tiger



Ditmars Series-Gorilla

## Filmo Exposure Meter



To supplement FILMO Exposure Chart furnished with each camera, we have designed an Exposure Meter to determine better the correct exposure when abnormal conditions prevail. With this Meter, cinematographers are sure of ascertaining the correct stop number at which to set the lens.

The meter is simple to use. Only three factors need to be taken into consideration:—the film, the light, and the shutter speed. Scales will be seen on the meter for these three value factors and a fourth value STOP is also indicated. (Lens diaphragm stop numbers.)

## Filmo Focusing Microscope

This unit provides a ready means of obtaining exact focusing with any lens used in the FILMO Camera. It is of special value with telephoto lenses, particularly when they are used at short range. Lenses may be tested for focusing accuracy as for distance and as to correctness of the infinity mark.



The lens is taken out of the camera and screwed into the focusing microscope. The image is focused on the ground glass. A clear and brilliant field, permitting focusing correctly to all corners of the picture area, is possible only with this unit. It should not be confused with cheaper, uncorrected optical devices that may allow for focusing only at the exact center of the picture area, and do not permit focusing for the corners.

The FILMO Focusing Microscope has an adjustable eyepiece for setting the focus to the individual's eye.

This is an accessory which makes possible better results with all lenses. Owners of telephoto lenses in particular will want to equip themselves with a FILMO Focusing Microscope for more accurate focusing, and for testing the accuracy of lens focusing scales.

Page Two

## Heyde Distance Meter



The same general construction and prisms as used in the military range finders are employed in the Heyde Foto Distance Meter, "the miniature range finder that takes the guess out of photography." To use this Distance Meter, simply hold it to the eye, sight the object to be photographed on the two prisms, move the sliding indicator and gradually the object will lose the appearance of being cut in half. When the two parts or segments join and look natural, the distance is established. Then the scale is read and the FILMO Focusing scale adjusted accordingly.

The operation of the Heyde Foto Distance Meter is so simple that a child can master it in a few minutes, and being of such compact size that it can be carried in the vest pocket or a small purse, it is out and ready for use in an instant. One glance tells the correct focus, all guesswork eliminated, helping to get the best results that the lens on the camera can produce.

### Leitz Distance Meter



For those who want a more highly corrected distance meter, the Leitz motion picture distance meter is recommended.

This is constructed with the accuracy usually associated with high grade scientific instruments and is finished in keeping with its optical and mechanical quality.

It is set by registering or aligning the image in the small clear circle with the green colored image. The distance in feet is then read on the dial.

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## B&H Character Title Writer

With the Character Title Writer you can show the hand in the very act of writing.



This new unit, complete with lights that operate from a household socket, so compact that it can be carried as easily as a camera, so simple anyone can operate it, opens a whole new field, intensely interesting in its possibilities for the amateur operator.

#### 1. First, it's a title writer.

A small, black card, a pen, and a special white ink—that's all that's needed to prepare titles. Titles can be printed in any style. They may be written in the titler's own hand-writing, adding an autographic touch which will give films added interest. Friends, persons of note, can sign their pictures, combining the moving picture with an autograph. Hands can be taken while signing—a moving autograph. Pictures clipped from newspapers, magazines, etc., may be pasted on the margins of the title card, appropriately illustrating your title subject.

The camera is adjusted to exact focus, and fastened firmly in the correct position. Then, press the button and FILMO does the rest.

### Then, it's a setting for miniature scenes, so much used in professional pictures.

A miniature reproduction of an actual scene—made of cardboard, modeled in clay, drawn on glass—can be easily photographed with this new Title Writer and Close-up Unit. The amateur who wishes to experiment can turn the whole realm of his fancy into moving pictures with mannikins and tiny scenes which are easy to build with a bit of practice. The whole stage is here, properly lighted, with the camera always in correct focus.

Page Four

#### It's a setting for cartoon movie sketches—the owner can make his own movie cartoons.

The amateur with a flair for sketching can have endless fun with this new device. He can make his own cartoon movies like "Felix the Cat." Sketched card silp easily into exact position, ready for another picture. A little practice, and the sketcher learns just what changes to make to cause his figures to move naturally.



A thousand new movie thrills all packed together in this convenient little carrying case.

Here is a whole new field opened for the amateur which can tremendously increase the interest in your films.

#### 4. It's a setting for scientific, graphic and trick exposure subjects.

Here, too, is a setting for botanical subjects—opening flowers, butterflies, insects—the whole realm of small natural things which amuse, instruct, and sometimes startle when thrown on the silver screen.

Think of the possibilities for study—education of children. Pictures, diagrams, charts, maps can be photographed while a hand with a pencil is pointing out points of interest, making a complete explanation.

This little setting provides the stage for dozens of tricks of the professionals—the picture which "grows together again" from a heap of scraps—photographs that wink and smile—animated experiments and other interesting and amusing tricks of the moving picture art.



Character Title Writer Outfit complete, consists of automatic prism compensating focuser, camera mount, title card-holder, two especially designed electric light bulbs with reflectors—conveniently mounted on magnolia base, lamp cord with push button switch, white ink, pen-holder and ball pen-point—and 12 Bell & Howell special title cards, all included in attractive leather carrying case.

B. & H. Snow White Ink for Title Writer. Per bottle

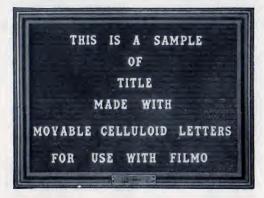
Black Title Cards. Package of 12..... Code MISIK. .25
Lamp for Title Writer, 110 volt, 165 watt... Code MISLM. 2.00

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#### BELL & HOWELL COMPANY CHICAGO

# Easy to Make Titles With Title Board



Title-Making Board Ready to Be Photographed

Titles for pictures help to liven up the films and make them even more interesting when projected.

It is very easy for the individual to make his own titles with FILMO title board equipment. The letters are of white celluloid and slip very easily into convenient grooves in the title board where they are held firmly for photographing.

All that is necessary to do is to set up the title with the celluloid letters, stand the camera on a tripod or some solid base, and set the title board about 30 inches away on a direct line with the camera lens. Focusing mount described elsewhere is necessary in photographing titles. Clear and distinct titles should result, if the light is good and the diaphragm opening set to conform with light conditions.

When the film containing the titles has been developed, titles can easily be spliced into the picture roll wherever you want them.

FILMO Title Board Code MISTB \$	6.25
One-half inch, ¾ or 1-inch Celluloid Letters for FILMO Title Board, 3c each. Per set of 200	6.00
One and one-half inch Celluloid Letters for FILMO Title Board,	

# To Record Field and Title Data



You have often wished for some convenient way to take notes on titles while out with FILMO. Here it is—FILMO Numbered Scene Cards for recording Field and Title Data!

When you go out to take pictures carry FILMO numbered scene card binder with you. On the card is space for recording such data as "date", "roll number", "stop number used", "footage of film", "light conditions", etc. After shooting the scene, jot down the information pertaining to it on the card you have exposed. Then photograph the next number and proceed with the next scene.

The data recorded at the time of using the camera enables you to make up the titles at your leisure. The numbers serve to identify the proper place in the film to splice in the titles.

FILMO Numbered Scene Cards are held securely in attractive black leather loose leaf binder. Binder measures 3x5 in., vest pocket size. A most useful accessory for all FILMO owners. No FILMO Cinematographer should be without it. Particularly helpful, in fact indispensable, to travelers as it enables making up accurate titles when returning from trip.

										. Code			
Extra	cards	for	bind	er,	per	set	of	50	 	. Code	CARE	ES	.35

Page Seven

# To Study Rapid Movements

The many calls we have received for a Camera which would take pictures that, when projected on the screen, would slow down the motion so that the action could be carefully followed, prompted us to develop the FILMO super-speed camera for the individual.

This slow-motion camera is the same in general appearance as our regular FILMO Camera. The difference lies in the operating mechanism. With the super-speed camera, pictures are taken at 8 times normal speed—128 per second instead of 16 per second. These pictures are projected at regular speed on screen, giving the S-L-O-W motion effect.

Athletic instructors and coaches find slow-motion pictures of wonderful help in their work of training men. Educators use slow-motion pictures for instruction purposes. Engineers and manufacturers require slow-motion pictures to analyze rapidly moving mechanism. Individuals find numerous uses for the slow-motion camera. Pictures taken with FILMO super-Speed Camera are not only educational but entertaining.

FILMO Super-Speed Camera without lens, but including case.

.....Code FILXA....\$255.00

Note: Special film with strong opaque film leaders is recommended for superspeed work. See page 19.

## Filmo Double Speed Camera

Under some conditions, it is desirable to take pictures with FILMO at a somewhat faster than the normal speed of 16 per second. This can be done with FILMO Double Speed camera which is adjusted to take 32 pictures per second, which will give an exposure in approximately 1/55 of a second, against 1/27 of a second at normal speed. Pictures taken with the double speed camera are slowed down to one-half when projected, making it possible to observe more clearly the action which took place while the scene was being photographed. Pictures may also be taken at regular speed of 16 per second, but not at half normal speed as with the regular standard FILMO equipment.

## Filmo Three Speed Camera

For the FILMO Cinematographer who wants to take pictures somewhat faster than normal speed and yet retain the below normal speed feature, the Three-Speed Camera has been developed. This instrument can be set to operate at 12, 16, or 24 exposures per second. A 144° shutter is used, making it necessary to open up the iris ½ point more than called for on the exposure chart when working at 16 speed, and 1 point when operating at 24 speed. This new speed combination can be installed on any FILMO Camera at a price of \$15.00.

Three-Speed FILMO Camera with T. H. C. F 3.5 lens, including leather carrying

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## Iris Vignetter Places Filmo a Step Nearer the Professional

Among the more important effects that increase the interest of the film audience is the elimination of a too sudden change in film subject and which can now be overcome through the use of the FILMO Iris Vignetter.

Moving the control lever of the Iris Vingetter to the closed position (while picture is being shot) causes the subject to appear in a gradually closing circle, which finally fades away completely. Opening the Iris (after starting the camera) gives just the opposite effect-the picture appears gradually on the screen. This effect gives the personally produced picture a professional air and further enhances the value of the Personal Film Library.



### Compact, Simple, Easy to Attach

The FILMO Iris Vignetter is very easily and quickly attacher. It replaces the sunshade on the regular 1-in, lens and slips on over the sunshades on the F 1.8 lens and the F 3.5 lens in micrometer focusing mount. It is opened and closed by means of a handy control lever which may be positioned and locked at the convenience of the operator.

A most compact little device, constructed of the finest materials insuring durability. It is finished in crystalized black. Attractive, Serviceable.

F 18 lens, or F 35 lens in micrometer focusing mount.

Code CAFIR. \$10.00

Page Nine

## A Tripod That Combines Lightness of Weight and Rigidity



#### TYPE E-WITH REVOLVING HEAD

This tripod is remarkably substantial and firm, providing a rigid support for the camera. Legs fold and unfold quickly, and are locked into place by snap catches provided at each joint. Lower sections of legs are adjustable, enabling graduating height of tripod to suit cinematographer.

Tripod fully extended is 53 inches in height. Folds into a small, compact, convenient-to-carry unit measuring 18 inches and weighing but 24 ounces.

The New Type E Tripod, although a "feather-weight," is substantially built and will give lasting service and satisfaction. Tripod legs and aluminum head are attractively finished in rich black. Snap catches and spurs are nickeled.

### Nu-Tiran Tilting and Panoraming Head

The Nu-Tiran tripod top facilitates panoraming and tilting the camera. Panoraming device is operated by crank; arrangement is also provided for quick pams. Tilting device easily and quickly manipulated. Compact and light of weight. Fits either the Triax or Type E tripods. A convenience wherever tripod is not provided with panoraming and tilting arrangement.

Nu-Tiran Panoraming and Tilting Tripod Top..... Code CAPOT.. \$12.00



#### Triax Tripod

Page Ten

# Interior Cinematography Easy with the New Halldorson Lamp



The increasing interest in the taking of interior scenes with the FILMO Camera has encouraged the developing of The Halldorson Twin Arc, a new type of lamp that surpasses in simplicity, safety, compactness and portability any other lamp ever devised for this purpose.

The Halldorson Arc is made ready for operation by merely opening the "case" (which is in reality the upper and lower portions of the lamp itself) and setting it upon its stand. All component parts except the stand are packed in this case. The stand folds and is packed into a small canvas case.

unusually convenient self-encasing feature.

Another important feature is the heat-resisting, glass spark shield, which makes it safe to use the lamp anywhere.

No other similar equipment has this

The arc burns with a steady bluewhite light on either 10 or 20 amperes of current and is semi-automatic in action. By pulling down on the cord once every four or five minutes it will burn without interruption.

The Halldorson Cinema Arc Lamp is ideally suited for every kind of photographic work and particularly so for home cinematography and com-

mercial photography.

#### **SPECIFICATIONS**

Operates on 10 or 20 amperes; pull cord switch for changing amperage; 2 arcs in series; rheostat in lower half of case; 110 volt A.C. or D.C.; size of case,  $5 \times 11 \frac{1}{2} \times 4 \frac{1}{2}$  inches; weight complete with stand, 23 lbs.; uses Photo Cored carbons  $\frac{3}{8}$  inch dia. x 12 inches long; lower carbons same diameter, 4 inches long; 15 feet of cord with plug for ordinary socket.

Lamp complete with all parts illustrated....Code MISLA.. \$65.00 (Clear glass spark shield supplied unless otherwise specified.)

Extra Spark Shield—clear or ground glass....Code MISNE.. 3.0

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## Speed and Long Range Lenses For Filmo Camera













3¾ in.-F3.3



In pursuance of an old established policy of striving for the ultimate of perfection in photo-

graphic results obtainable with cameras of our manufacture, we have adopted as standard and sell only lenses of proved quality, based upon our twenty years' experience and observation of results in the professional field. We are regularly stocking the lenses listed in this folder and have chosen them because of their special fitness for cinematograph work.

FILMO Cameras are regularly equipped with the highest grade lens procurable, viz., the Taylor-Hobson Cooke Anastigmat with working speed of F3.5. It is highly corrected and insures maintenance of uniform excellence. But for special purposes the following lenses are regularly stocked:

25 mm. Taylor-Hobson Cooke F 1.8 Photo lens in focusing mount (very fast, of the highest quality, especially recommended for interiors and super-speed work).

Code IDAYF..\$55.00

3¾" Taylor-Hobson Cooke F3.3 Telephoto lens in focusing mount including matched Viewfinder Objective and eyepiece lens (for medium long range work).

Code IDBUA. \$85.00

Code	IDBUA	\$85.00
Leather case for aboveCode	ADADE	3.00
33/4" lens with case and gelatine color filter	ADBLS	88.00
3¾" lens with case and natural glass color filterCode	ADALS	90.00
6" Taylor-Hobson Cooke F4.5 Telephoto lens in focusing	mount, inc	luding

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#### matched Viewfinder Objective and eyepiece lens (for long range work.) .Code IDCED .... \$95.00 25 mm Carl Zeiss F 2.7 Tessar Photo lens in plain mount. .Code LECMO .... \$45.00 Same in focusing mount. ....Code LETIM .... 51.00 35 mm. Carl Zeiss F 3.5 Tessar Photo Lens in plain mount, including matched 2" Goerz F 3.5 lens in focusing mount, including matched viewfinder objective and ......Code LEGOE....\$65.00 eyepiece lens ... 3" Goerz F 3.5 for medium distance shots, in focusing mount including matched 4" Dallmeyer F 4. Telephoto Lens in focusing mount.......Code LEFIC....\$80.00 6" Dallmeyer F 4.5 Telephoto Lens in focusing mount.......Code LESCO... \$95.00 For illustrations and complete descriptions of special lenses see folder "Special Cinematograph lenses for use with FILMO."

## 25 mm. T-H.C. F3.5 Lens in Special Micrometer Focusing Mount

There has been a growing demand for the regular lens in a self-contained focusing mount, and we are now in a position to supply this unit.

The lens is basically the same as the regular lens on the camera, but is unique in the respect that the focusing is done by unscrewing the front element of the lens only. It may be used with the auxiliary lens dials which are not disturbed when adjusting the focus.



- The focusing dial is therefore in front of the lens and also acts as a sunshade. It is larger than the sunshade formerly used on the lens and and is so made that it will take the same filter as the 1-in. Cooke F 1.8 lens.

The lens mount itself is attractively finished in black enamel and will take the diaphragm stop dial like the regular lens, permitting the exposure to be regulated through the finder.

The focusing dial is aluminum and has the footage graduated in black

letters. The lens will focus from infinity down to two feet.

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# Special Amber Glass Color Filter for 1 Inch F 3.5 Lens



The color filter is an essential part of the equipment of the FILMO Cinematographer who strives for the utmost in beautiful effects and quality in his pictures. The filter partially absorbs the excessive ultra-violet in beach, water, snow and cloud scenes and helps eliminate the haze that is so apparent in this class of work, thereby resulting in pictures that are clearer, snappier, and more true to life.

A new and improved filter made of special amber colored glass is now available to FILMO Owners. It is superior to the ordinary filter (made by cementing a strip of dyed gelatin between two optically flat pieces of glass) because it is constructed of but one piece of glass and no gelatin or cement is used, as the color is inherent in the glass itself.

This glass color filter is of the very highest optical grade. Optical correction is assured because the front and back surfaces of the glass are perfectly flat and free from tiny distortion errors and, in addition, are plano parallel and free from any prism effect.

The glass color filter will last indefinitely since it is not affected by heat and cannot deteriorate. It is an extremely efficient filter and is recommended for use with the FILMO Camera. It is readily attached to the camera by merely exchanging places with the sunshade.

## Other Filmo Color Filters

Glass Color Filter for Taylor-Hobson Cooke 25 mm F 1.8 lens.
Also used for 1-in. lens (LEFOC) in micrometer focusing mount.
(X2) Code CACOT \$4.50
Glass Color Filter for Taylor-Hobson Cooke 3¾-in, F 3.3 lens. (X3)
Glass Color Filter for Taylor-Hobson Cooke 6 inch F 4-5 lens.
(X3)

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## Auxiliary Finder Unit





Now, there's no need to miss long range shots. No need to miss them while changing finder lenses—no need to try to "guess at the field" with a wide angle

finder. The new Auxiliary Long Range Finder is fully equipped for use with long range lenses. It attaches quickly and easily to the FILMO or EYEMO spy glass finder. The flanged holder slips between the finder flanges of the regular camera finder tube. (No screws or tools are needed to install.) Insert telephoto finder in the Auxiliary Unit Tube, and you are ready to "shoot."

Use is very simple. First, find the subject quickly with the wide angle finder. Then, slip the camera over an inch to bring the Auxiliary Finder before your eye, and the new Auxiliary Finder Unit shows the telephoto shot exactly and "what you see you get."

The Auxiliary Unit makes using the telephoto lens as simple as standard wide angle lenses, and permits rapid change over, so you will get those quick, long shots you've been missing and get them with no film losses from missed pictures. Every telephoto lens owner will want one—and every FILMO and EYEMO owner will now want a telephoto lense with good long shots made sure.

#### Rubber Lens Cap

### Lens Cleaning Tissue

#### Camera Aperture Brush

Aperture in camera should be kept free of dust, so that pictures will be clean and sharp at edges. This brush is ideal for cleaning the camera aperture.

Code CAFAB..\$0.25

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## Prismatic Eye For Filmo



Using the Prismatic Eye

To permit photographing a subject without attracting attention, the Prismatic Eye has been developed. This simple optical device attaches to the finder tube in such a way that, although the operator looks away from the subject, he sees it imaged upon the prism. The principle is the same as that used in the indirect viewfinders on Bell & Howell Professional Cameras.

This accessory is especially valuable in filming natural actions and expressions, as so many people become camera-conscious when they know they are being photographed.

Prismatic Eye for FILMO Cam-

## Combined Camera and Accessory Case

This new FILMO Camera carrying case has been designed for the FILMO owner who has equipped himself with a full line of accessories for his camera, and wants a safe, compact, always-accessible means of transporting his outfit.

In addition to the camera with regular lens equipment, this case has compartments for the T-H C. 25 mm. F 1.8, 334-in. F 3.3, and 6-in. F 4.5 lenses, five eyepieces and viewfinder objectives, four color filters, FILMO Exposure Meter, Iris Vignetter, two aperture brushes, Auxiliary Finder Unit, Focusing Microscope, Scene Card Binder and Refills, Camera Winding Key, and two 100-ft. rolls of 16 mm. film in their cartons.



The case is durably made of rich brown cowhide, neatly lined with green silk plush. Both suitcase style handle and shoulder carrying strap are regularly supplied. The finishing touch of this fine case is its combination lock of the type used on safes.

Page Sixteen

## Filmo Carrying Case



Here is a new carrying case for the FILMO Automatic camera.

It has the same distinctive style as the former case but in addition to the detachable shoulder strap a hand carrying strap is provided. Now the camera case can be carried as you would carry a brief case.

It is made of mahogany colored leather cowhide—rich in appearance, strong and serviceable. Lock, and rings to accommodate the shoulder strap snaps are nickel or oxidized finish. The beautiful green silk plush lining makes a most appropriate setting for the FILMO Camera-like a jewel in its case.

Inside and out, this new case is a work of art and will make its owner proud to carry it.

## Goat Skin Carrying Case

This is an especially fine case, provided for the discriminating. goat skin, hand-sewed, silk plush lined, with hand carrying and shoulder 



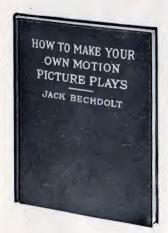
#### Combination Lock Case

This case is of genuine cowhide. black, and fitted with a combination safe type lock. It accommodates the FILMO Camera, a telephoto lens, two rolls of film, carrying strap, and winding key.

..... Code SLCAS . \$22.00

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## A Book on How to Make Your Own Motion Picture Plays



"HOW TO MAKE YOUR OWN MOTION PICTURE PLAYS" is a book that thousands have been eagerly awaiting. It covers an intensely interesting subject—the directing and acting out of scenarios in the home and by home folks.

With FILMO the mechanical and technical problems of amateur cinematography have been taken care of by experts, and the equipment simplified so that anyone can produce his own movies. But after taking pictures of the children, friends, sports and other scenes the question of "What Next" often arises.

The book, "How To Make Your Own Motion Picture Plays" answers that question, as you will note by the list of contents following:

#### CONTENTS

Equipment necessary—Organizing a Motion Picture Company—The Director, Camera Man, Property Man, Actors and their various duties—Locations—The Director's Job—Telling a Story in silent action—Economy in story telling—What is dramatic?—Cause, Effect and Result—Rehearsals—Costumes—Composition—Camera lines—The Making of Titles—Allowance for wasted film—Making up for the camera. Color photographs—Backgrounds—Editing the film—The difficult art of Selection—Telling the whole story—Eliminating Defects.

Travel and scenic pictures—Selecting subjects with care—Human interest—How to get natural action—Difference in atmospheric conditions—A pageant of Home Town History—Picturesque occupation.

Portraiture in motion pictures—Photographing children—Photographing animals.

Several short and long scenarios that are very easily acted out are also included.

The above outline gives some ideas of the scope of the new book, "How To Make Your Own Motion Picture Plays" and the number of subjects it covers. An interesting book for everyone to read. Attractively and substantially bound, illustrated.

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# Books On Photography and Allied Subjects

The books listed below have been written in the interest of the amateur photographer and are especially recommended to anyone desiring to make a study of the finer points of cinematography.

Condensed Course, Motion Picture Photography—By Carl Gregory, F. R. P. S	L. . \$6.00
Motion Picture Projection—By T. O'Conor Sloane, PH.D., LL. D	. 5.00
Screen Acting-By Inez & Helen Klumph Code MISDN .	
Photoplay Writing—By William Lord Wright Code MISER. Photography for the Amateur—By George W. French.	. 3.00
Principles of Pictorial Photography—By John Wallace Gillie	s.
· · · · · · Code MISHM.	
Motion Picture Directing—By Peter Milne Code MISIV .	. 3.00
Motion Picture Photography for the Amateur—By Herbert (McKay	2.50

#### SPECIAL OFFER

### 16 Millimeter Film

The standardization of 16 millimeter Cine Film used in FILMO Cine Camera and projector has reduced the expense of taking motion pictures to the minimum.

A \$6.00 roll of Cine Film contains 100 linear feet or 4,000 views. This is equivalent to 250 picture feet of standard 35 mm. film, or four minutes of actual screen time.

The film when developed is reversed to a positive which permits the same film to be used with the projector that is used with the camera. The equivalent footage in standard film would cost approximately six times more for the finished print.

100 foot roll 16 mm. film. Per roll ..... Code FIDMA \$6.00
100 ft rolls packed in sealed tins for ocean travel or tropical climates. Per roll ..... Code FIDOL \$6.20

100 foot roll 16 mm. film for super-speed camera, put up with opaque film leader and especially recommended for high-speed work.

Code FIDUM \$6.75

Prices include finishing and return transportation.

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## Convertible Film Splicer

For efficiently joining all 16 mm. Cine Films

A good film splicer is most essential to the successful joining of film for proper projection of pictures. In most every roll of Cine Negative, there will be found scenes or individual pictures that are blurred, uneven, over or under exposed or marred in development, and the removal thereof would improve and give an air of professional quality to the entire roll. Then too, rearrangement of the continuity of the finished picture is sometimes most desirable; insertion of titles, also joining together the 100 foot rolls of developed and finished Cine Negative for projection. All the many needs for cutting and joining 16 mm. Cine Films will be found most efficiently accomplished with the use of the Bell & Howell Convertible Film Splicer.

This Splicer is provided with its own cutter, which shears the film in exact register for scraping and joining. Unlike other splicing apparatus, it makes a diagonal cut, which proportionately increases the bonding-surface over the small area of the 16 mm. film, thereby strengthening and making the splice more lasting and permanent as well as providing smoother running of the film over the sprockets and through film movement mechanism. The finished joint will be found in perfect alignment, neat, clean, and imperceptible when projected upon the screen.

The Splicer is neatly mounted on a suitable base, which also contains a bottle of cement (sufficient for several hundred splices), water bottle with cork and brush for applying moisture to the emulsion surface to be scraped, and scraper blade, as well as complete instructions for preparing and making the splices correctly.

### Film Cement

This Cement is manufactured in our laboratories under our own formula and is the result of many years of experimenting. It contains the highest quality of chemicals necessary to the making of a perfect splice. It is used almost exclusively by the large film producers and film laboratories throughout the country in connection with our standard Automatic Film Splicing Machine.

It will ideally splice all 16 mm. as well as standard 35 mm. films, either in safety standard or nitro-cellulose base. It is furnished in 1-ounce bottles, blue and gold labeled, equipped with combination cork and brush. The bottle is shaped for convenient stationing and use, and is practically non-tipping. One bottle is supplied with each purchase of a splicer outfit.

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# Rewinder Outfit for 16 mm. Films

Facilitates rewinding films.

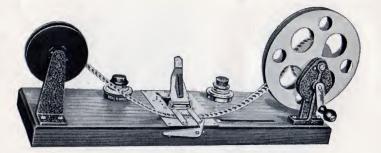
The rewinder outfit is a very neat compact device of extraordinary rigid, rugged construction. It is so durably made as to be practically indestructible under ordinary operation. The units include the rewinder itself and the reel or spoolholder mounted upon a hardwood base. Both units are of all metal construction with beautiful crystallized finish. The Rewinder has the same style of shaft as the FILMO Cine Projector, and the FILMO Automatic Cine Camera, so that all 16 mm. metal spools or film reels are accommodated.

## Film Inspection Glass

FILMO Film Inspection Glass will help you edit your film. The glass magnifies the 10 diameters as you hold it to the light and the pictures are

more plainly seen. With the glass you will save time looking for the bad spots to cut out or the places where you want to insert titles.

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# Combination Rewinder and Splicer Outfit For 16 mm. Cine Films

This unit consists of the following devices:

(1) Reel or Spool Holder.

(2) Splicer.

(3) Cement and Water Bottles.

(4) Rewinder.

(5) Hardwood base on which the above units are mounted.

This Combination Rewinder and Splicer unit is made to meet thoroughly every rewinding and joining need for 16 mm. Cine Films. The same kind of construction that has made Bell & Howell Standard Motion Picture Equipment famous throughout the world, is embodied in this outfit. Genuine Bell & Howell workmanship has always given complete satisfaction under all conditions.

This same outfit, built to larger proportions, is also furnished for use in joining 35 mm. Standard Film.

Combination Rewinder and Splicer Outfit for 16 mm. film.
Code MISPA \$14.00

### Reels

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# Projection Screens B. & H. Glass Bead Screen



### B. & H. Special Roller Wall Screen

This is a durable heavy duck screen with well silvered surface, offering a brilliant reflecting surface. When not in use, screen, which is firmly attached to a new type metal roller, rolls up into a dust proof case. A surface much flatter than the ordinary roll screen is assured by the cord and hook arrangement.

Size 3 ft. x 4 ft	 Code SAROM	\$15.00
Paragon Screen, 3 ft. x 4 ft.	Code SAREF	10.00

### Maylite Daylight Screens

The picture is shown through this screen of fine cloth-like translucent material, which is frosted by a secret process. Sizes listed are mounted on rigid frames, dull black ebony finished, are equipped with leather handle for carrying, and with wood supports upon which they stand securely.

16	in.	X	20	in.	Maylite	Screen	 . Code	SAVOM	\$10.00
24	in.	X	30	in.	Maylite	Screen	 . Code	SAMOV	15.50

Prices of other sizes on application.

### Translux Daylight Screens

Translux Daylight Picture Screens may be used in any room either naturally or artificially lighted, or in the open. Pictures of remarkable brilliancy, great depth of focus and giving almost a stereoscopic effect are obtained with this screen. It is particularly adapted for use in schools, churches, lecture rooms, hotels, etc.

Translux Daylight Screen, 2 ft. x 2½ ft. Code SAMAR . \$25.00 Translux Daylight Screen, 2½ ft. x 3 ft. Code SATRD . 37.50

Prices of other sizes on application.

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Projection Lenses Regularly Stocked.

## Lenses for Projection

One of the exclusive features of the FILMO Cine Projector is its flexibility for furnishing almost any desired picture size. Lenses of varying focal lengths are regularly stocked and because of the standard system of micrometer mountings employed, they may be interchanged as desired. The purchaser of FILMO Projector has the choice of either a 2 inch or 2½ inch objective lens which is supplied as standard equipment. Other sizes may be substituted at a nominal cost.

Prices and further details on projection lenses on application.

Focal				1	Distance	in fe	et from	Screen	1					
Length	8	10	12	16	20	25	32	36	40	45	50	64	75	100
of Lens (Inches)			(First		of Pict				als) shows l	neight)				
1	3.08 2.28	3.85 2.85	4.62 3.42	6.16 4.56	7.70 5.70	9.63 7.13								
11/2	2.05 1.52	2.57 1.90	3.08 2.28	4.11 3.04	5.13 3.80	6.42 4.75	8.21 6.08	9.24 6.84						
2	1.54 1.14	1.93 1.43	2.31 1.71	3.08 2.28	3.85 2.85	4.81 3.56	6.16 4.56	6.93 5.13	7.70 5.70	8.66 6.41	9.63 7.13	722		
21/2	1.23 .91	1.54 1.14	1.85 1.37	2.46 1.83	3.08 2.28	3.85 2.85	4.93 3.65	5.54 4.10	6.16 4.56	6.93 5.13	7.70 5.70	9.86 7.30		
3		1.28 .95	1.54 1.14	2.05 1.52	2.57 1.90	3.21 2.38	4.11 3.04	4.62 3.42	5.13 3.80	5.77 4.28	6.42 4.75	8.21 6.08	9.63 7.13	
31/2		1.10 .81	1.32	1.76 1.30	2.20 1.63	2.75 2.04	3.52 2.60	3.96 2.93	4.40 3.26	4.95 3.66	5.50 4.07	7.04 5.21	8.25 6.11	11.00 8.14
4			1.16 .86	1.34 1.14	1.94 1.43	2.41 1.73	3.00 2.28	3.47 2.57	3.85 2.85	4.35 3.21	4.82 3.57	6.16 4.56	7.22 5.35	9 63 7.13

## Lamps

A 50-volt, 200-watt lamp is supplied as standard equipm	ent. Extra
lamps may be secured at any FILMO dealers or sold direct.	
Code PRO	KD \$3.00
32-volt, 165-watt lamp	

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## Projector Carrying Case with Daylight Screen

For Sales Demonstration.

When projecting pictures in brilliantly lighted room, a daylight screen is recom-mended. Pictures are projected THROUGH the screen of translucent material and show up more brilliantly,

A special FILMO carrying case with daylight screen attached is now available. The screen is instantly ready for use by pulling out of case (see above illustration). When not in use, it slides back in the case out of way and is protected from damage. While screen is 6 x 9 inches in size and permits showing a picture of this size, it tells your story better than if projected on the wall in a lighted room, as the picture is much brighter and clearer, and projection is accompanied with only a minimum of disturbance.

FILMO carrying case with daylight screen attached is indispensable for salesmen and others who are called upon to show pictures in places that are not easily 

### Screen Only

The 6x9 inch daylight screen may be had separately. Adaptable for counter display or window advertising. May also be used at shows, conventions, etc., in making demonstrations. Other size daylight screens enabling the showing of larger pictures also obtainable for use in schools, colleges, etc.

6x9-Inch Screen only. Code SAGDS....\$6.00 With Screen Case. .Code SAGMO.... 8.50

### Condensers



45-50 Condenser

To users of FILMO Cine Projectors who may desire greater illumination on the screen at the sacrifice of the feature of stopping for the projection of a single picture the 45-50 condenser is recommended. The increase of light is from 50% to 75%. Single pictures may be projected only by exchanging for the double 75 condenser supplied as standard equipment. Stopping the projector when using the high power 45-50 condenser will blister the film. See also variable voltage resistance unit for still further increasing the amount of illumination.

45-50 Condenser..... ....Code PROME .... \$8.85

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### Variable Voltage Resistance and Ammeter



In many localities, users of FILMO Projectors are confronted with line current conditions that are not conducive to giving maximum screen brilliancy. Or line current may be too high for the rated voltage of the projector lamps.

FILMO variable resistance will compensate for all current fluctuations by adjusting the delivery of current to the lamp to the proper voltage. It gives a range of adjustment from 36 to 60 volts by 2volt steps.

Greater illumination is assured with FILMO variable voltage resistance in addition to the protection it offers for projection lamps. It further enables stopping the film for still projection while using the stronger 45-50 light condenser, by turning the control lever to the lowest point. When installing the variable voltage we replace the regular 75-75 condenser with the stronger 45-50 light condenser.

The increased illumination furnished by the above units over the regular fixed resistance supplied as standard equipment is from 75 to 100%.

When variable voltage resistance is installed, the ammeter is also fitted. This tells at a glance when the control lever of the variable resistance unit is turned to the proper point to give correct current delivery to the clamp. For example, when hand on ammeter dial registers four amperes, definite knowledge is obtained that the rated capacity of the lamp is being used and producing maximum screen brilliancy under prevailing outside current conditions; also that lamp is not overloaded causing it to burn out.

The variable resistance unit and ammeter on FILMO Projector will pay for itself in giving the best results obtainable and by saving on projection lamps.

Variable voltage resistance with ammeter units. Codes PROYR and PROMA . \$50.00

Credit of \$7.50 will be extended for return of fixed resistance—\$5.00 credit if variable voltage resistance is installed by us, provided unit is received by us in good resalable condition and within six months of date of purchase.

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## Geared Rewind for Filmo Projector

Speed in rewinding film is essential when you have an audience awaiting the showing of a picture. With special geared rewind, the film is wound much faster than with the rewind with which FILMO projector is regularly equipped. To install, regular projector arm assembly must be removed and replaced with projector arm equipped with geared rewind. (See illustration on page 26 of projector so equipped.)

Projector arm with geared rewind....Code PROTU..\$15.00

A credit of \$9.00 will be allowed upon return of projector arm with regular rewind, making price of geared rewind \$6.00.



## Film Storage and Carrying Case

Many of the films that you are now ac-cumulating with FILMO Camera would be difficult to replace and will be considered priceless to you in years to come. You have, no doubt, often wished for a better way to store this valuable film after you have it properly edited and titled.

A special film storage and carrying case, designed for this purpose, is now available. Three sizes are regularly stocked. The case shown in the illustration will hold 16 reels of 16 mm. film in cans (16,000 picture feet.) A smaller case contains 8 reels and a larger size 24 reels. Cases are divided into compartments and compartments numbered, enabling indexing film for ready reference.

The film storage and carrying case provides a safe, out-of-the-way storage place for films not in use. A humidor arrangement in the cover permits moistening and helps to prevent the film from becoming dry and brittle. This new film container also affords a most convenient way to carry several cans of film.

Case is substantially built and attractively finished in black imitation leather. It is equipped with a strong handle and a lock and key for safety.

Film Storage and Carrying Case, as illustrated, built to accommodate 16 400-foot reels of 16 mm. film in cans..... ......Code MISUB....\$17.50 

## Projector Aperture Cleaning Brush

Aperture in projector should be cleaned frequently. Especially should it be cleaned before using to remove the dust and lint which settles there and is magnified on the screen, giving a fuzzy and ragged edged appearance to the picture.

#### Line Current Resistor

FILMO Cine Projectors are equipped with 200-watt, 50-volt lamps, which are designed only for operation on a maximum of 115 volts. If the line current exceeds this, there is apt to be a premature burn-out of the lamps. To compensate for excess line current conditions, a small resistor has been perfected, and will automatically cut down 120 line voltage to 115 or less. If line voltage exceeds 120, resistors may be plugged in series. This resistor plugs into the ordinary light socket, and the Cine Projector connection attaches to it. Line Current Resistor, 22,00

## Filmo Cine Projector 32-Volt Circuit

We are prepared to supply the FILMO Cine Projector for operation in homes, farms, or places where 32-volt circuits are generated from individual lighting plants.

A special motor and lamp are required, displacing the regular standard 110-volt circuit units. Installation is made at our factory. There is an increase of ten dollars in the cost of the FILMO Cine Projector originally equipped with a 32-volt circuit. Price for converting the regular standard 110-volt projectors for interchangeability of service will be quoted on application.

Rheostat for 110-Volt Current, for use with 32-Volt Projector....Code PROEF.. 18.50

Note: 32 volt projector can be used interchangeably on 32 and 110 volt current
by the use of this rheostat.

## Special Rheostats for 210 to 240-Volt Circuit

### Special Oil

A good quality of Watch Oil has been particularly selected for use on the FILMO Cine Projector. Because of the high speed of the movement mechanism and the precision and accuracy of all running parts, it is most essential that only the best grade of lubricant be used. The instruction folder indicates the points to be oiled a few drops at a time applied at frequent intervals.

Oil per bottle, Code PROIB, 25c; including one drop oil can, Code PROCO, 50c, postpaid.

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# Centrally Located Service Stations for the convenience of Mino Owners

The Bell & Howell Company maintains stations at centrally located points where FILMO Equipment may be sent for expert service work. When your camera, projector, or accessories are in need of repairs or replacements calling for skilled treatment, send them to the nearest station and have the assurance that the work will be done properly by factory-trained experts. Addresses of these stations follow:

Chicago, Illinois, Main Office and Factory, 1801 to 1829 Larchmont Ave. New York, New York, Hollywood, California, London, England, 320 Regent Street

#### Our Guarantee

We guarantee that the FILMO Motion Picture Camera and Projector will do perfectly the work for which they are designed and sold. Any adjustments necessary, due to imperfections in material or workmanship, will be made without charge for a period of two years, provided instruments are returned prepaid to our Chicago Factory or to the Bell & Howell branch located nearest you (see list of branches above), and provided the serial number of machine (Camera or Projector) has been registered with us under owner's name at time of purchase. Be sure to write and quote serial number when sending equipment to us.

Lamps and films are not guaranteed by the Bell & Howell Company, but we will extend every endeavor to co-operate for you with the manufacturers thereof.

This guarantee is backed by the largest and strongest manufacturers of motion picture machinery in the world.

#### BELL & HOWELL COMPANY

1801-15 Larchmont Ave., CHICAGO

NEW YORK 220 W. 42ND ST, HOLLYWOOD 6324 SANTA MONICA BLVD

LONDON (B.&H.Co., LTD.) 320 REGENT ST.

Established 1907





Sold by

# ACCESSORIES FOR THE

BELL & HOWELL



Camera and Projector



FOR Better Personal Moving Pictures